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## U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration

Form Approved OMB No. 44-R1387

## MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

		SECT	ION I		
MANUFACTURER'S NAME		3501	EMERGENCY TELEPHO	NE NO	
Iowa Prison Industries			319-462-354		
ADDRESS (Number, Street, City, State, and ZIP Co	odel	T-	· · · · · · · · · · · · · · · · · · ·		
406 North High St. An	ainor	38, IO	wa 52205 Trade Name and synonyms WBright Arrow Scour		
CHEMICAL FAMILY			FORMULA	ing r	<u>'Owa e</u>
Cleaner	-		NA Phosphate - Silicate	- Sur	facta
SECTION	111 -	HAZAF	DOUS INGREDIENTS		
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	×	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS .		
VEHICLE Not Applicable			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX	_ -	
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURE	SOF	OTHER LIC	DUIDS, SOLIDS, OR GASES	*	TLV (Units)
					(Ontra)
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SE	CTIO	N 111 - 6	PHYSICAL DATA		
<del></del>	CTIO	N III - F	PHYSICAL DATA  SPECIFIC GRAVITY (Ha 0=1)		4.00
BOILING POINT (°F.)	CTIO	N III - F	SPECIFIC GRAVITY (H <sub>2</sub> O=1) PERCENT, VOLATILE		1.00
BOILING POINT (°F.) VAPOR PRESSURE (mm Hg.)	CTIO	N III - F	SPECIFIC GRAVITY (H2O=1)		1.00
BOILING POINT (°F.)  VAPOR PRESSURE (mm Hg.)  VAPOR DÈNSITY (AIR=1)			PERCENT, VOLATILE BY VOLUME (%)  EVAPORATION RATE (		
BOILING POINT (°F.)  VAPOR PRESSURE (mm Hg.)  VAPOR DÈNSITY (AIR=1)  SOLUBILITY IN WATER	Co	omplet	PERCENT, VOLATILE BY VOLUME (%)  EVAPORATION RATE (		1.00
BOILING POINT (°F.)  VAPOR PRESSURE (mm Hg.)  VAPOR DÈNSITY (AIR=1)	Co	omplet	PERCENT, VOLATILE BY VOLUME (%)  EVAPORATION RATE (		
BOILING POINT (°F.)  VAPOR PRESSURE (mm Hg.)  VAPOR DÉNSITY (AIR=1)  SOLUBILITY IN WATER  APPEARANCE AND ODOR White	Co	omplet Wder	PERCENT, VOLATILE BY VOLUME (%)  EVAPORATION RATE (		
BOILING POINT (°F.)  VAPOR PRESSURE (mm Hg.)  VAPOR DÉNSITY (AIR=1)  SOLUBILITY IN WATER  APPEARANCE AND ODOR White  SECTION IV -	Co	omplet Wder	SPECIFIC GRAVITY (H2O=1)  PERCENT, VOLATILE BY VOLUME (%)  EVAPORATION RATE (		
BOILING POINT (°F.)  VAPOR PRESSURE (mm Hg.)  VAPOR DÉNSITY (AIR=1)  SOLUBILITY IN WATER  APPEARANCE AND ODOR White  SECTION IV -	Co	omplet Wder	PH  SPECIFIC GRAVITY (H20=1)  PERCENT, VOLATILE BY VOLUME (%)  EVAPORATION RATE (=1)  PH   EXPLOSION HAZARD DATA		10
BOILING POINT (°F.)  VAPOR PRESSURE (mm Hg.)  VAPOR DENSITY (AIR=1)  SOLUBILITY IN WATER  APPEARANCE AND ODOR White  SECTION IV -  FLASH POINT (Method used) None  EXTINGUISHING MEDIA	Co	omplet vder E AND	PH  SPECIFIC GRAVITY (H20=1)  PERCENT, VOLATILE BY VOLUME (%)  EVAPORATION RATE (=1)  PH   EXPLOSION HAZARD DATA		10
BOILING POINT (°F.)  VAPOR PRESSURE (mm Hg.)  VAPOR DÉNSITY (AIR=1)  SOLUBILITY IN WATER  APPEARANCE AND ODOR White  SECTION IV -  FLASH POINT (Method used) None	Co	omplet vder E AND	PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (		10

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Dust may irritate Eyes    May			SE	CTION	V - H	IEAL	TH HAZA	RD D	ATA
The event of eye contact rinse with clean water. Consult a physician. In the event of prolong skin contact, rinse with water.    SECTION VI - REACTIVITY DATA	THRESHOLD LIMIT	VALUE	]	N/A					
EMERGENCY AND FIRST AID PROCEDURES  In the event of eye contact rinse with clean water. Consult a physician. In the event of prolong skin contact, rinse with water.    SECTION VI - REACTIVITY DATA	FFECTS OF OVER	EXPOSURE		Dust m	ay i	rri	tate Ey	es	
In the event of eye contact rinse with clean water. Consult a physician. In the event of prolong skin contact, rinse with water.    SECTION VI - REACTIVITY DATA		_			_ <b>.</b>				
Clean water. Consult a physician. In the event of prolong skin contact, rinse with water.  SECTION VI - REACTIVITY DATA  STABILE   CONDITIONS TO AVOID  STABLE   X    INCOMPATABILITY (Materials to evoid)  MAZARDOUS DECOMPOSITION PRODUCTS  MAZARDOUS POLYMERIZATION   MAY OCCUR   CONDITIONS TO AVOID  WILL NOT OCCUR   X    SECTION VII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED   Sweep up and/or flush away.  WASTE DISPOSAL METHOD   Trash container  SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)   Powder type  VENTILATION   LOCAL EXHAUST   SPECIAL    MECHANICAL (General)   DTHER  PROTECTIVE GLOVES   OTHER  Optional   OTHER  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING   Store in dry area.	MERGENCY AND	FIRST AID PR	OCEDU	IRES Th	the	ev	ent of	eve	contact rinse with
SECTION VI - REACTIVITY DATA  STABLE   X    UNSTABLE   X    UNSTABLE   X    UNSTABLE   X    UNCOMPATABLITY (Materials to stoid)  HAZARDOUS PROLUMENTS TO AVOID  HAZARDOUS DECOMPOSITION PRODUCTS  HAZARDOUS POLYMERIZATION   MAY OCCUR   X    SECTION VII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED    WASTE DISPOSAL METHOD   SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)   Powder type  VENTILATION   LOCAL EXHAUST   Satisfactory    VENTILATION   LOCAL EXHAUST   SPECIAL    MECHANICAL (General)   OTHER  PROTECTIVE GLOVES   OPTIONAL    OPTIONAL   SPECIAL PROTECTION OPTIONAL SAFETY    WEST PROTECTIVE GLOVES   OPTIONAL SAFETY    OPTIONAL   SPECIAL PROTECTION OPTIONAL SAFETY    OPTIONAL   SPECIAL PROTECTION OPTIONAL SAFETY    SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING   Store in dry area.	clean wat	er. Cons	sult						
SECTION VI - REACTIVITY DATA  UNSTABLE X  INCOMPATABILITY / Materials to evoid)  HAZARDOUS DECOMPOSITION PRODUCTS  HAZARDOUS POLYMERIZATION  MAY OCCUR X  SECTION VII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  WASTE DISPOSAL METHOD  Trash container  SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST SECTION INFORMATION  PROTECTIVE GLOVES  OPTIONAL  SECTION IX - SPECIAL PROTECTION OPTIONAL Safety glasses  OTHER PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  Store in dry area.									
STABLE X SECTION VII - SPILL OR LEAK PROCEDURES  SECTION VII - SPILL OR LEAK PROCEDURES  SECTION VII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED SWEEP UP and/or flush away.  WASTE DISPOSAL METHOD Trash container  SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type) Powder type  VENTILATION LOCAL EXHAUST Satisfactory Statisfactory MECHANICAL (General) OTHER  PROTECTIVE GLOVES Optional Stafety glasses  OTHER PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.									
SECTION VIII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  SECTION VIII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST Satisfactory MECHANICAL (General)  PROTECTIVE GLOVES  Optional  SECTION IX - SPECIAL PRECAUTIONS  SECTION IX - SPECIAL PRECAUTIONS  SECTION IX - SPECIAL PRECAUTIONS  STEPS PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS  STORE IN dry area.	•			SECTIO	ΝVI	• RE	EACTIVIT	Y DA	TA
NCOMPATABILITY (Materials to avoid)  HAZARDOUS POLYMERIZATION  SECTION VII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  NASTE DISPOSAL METHOD  Trash container  SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST Satisfactory PROTECTIVE GLOVES  Optional  OTHER  PROTECTIVE GLOVES  Optional  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  Store in dry area.	TABILITY	UNSTABLE			CONDI	HION	S TO AVOID		<u>-</u>
MAZARDOUS DECOMPOSITION PRODUCTS  MAZARDOUS POLYMERIZATION  MAY OCCUR WILL NOT OCCUR X   SECTION VII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  WASTE DISPOSAL METHOD  Trash container  SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type) VENTILATION  COCAL EXHAUST Satisfactory MECHANICAL (General)  PROTECTIVE GLOVES  Optional OTHER  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.	,	STABLE		Х			, , , , , , , , , , , , , , , , , , ,		
MAY OCCUR WILL NOT OCCUR  SECTION VII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  SWEEP UP and/or flush away.  WASTE DISPOSAL METHOD  Trash container  SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST Satisfactory MECHANICAL (General)  PROTECTIVE GLOVES Optional  Other  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.	NCOMPATABILITY	(Materials to	avoid)	•					:
SECTION VII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  WASTE DISPOSAL METHOD  Trash container  SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST SATISfactory MECHANICAL (General)  Optional  Optional  Optional  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  Store in dry area.	HAZARDOUS DEC	OMPOSITION F	PRODUC	CTS					
SECTION VII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  WASTE DISPOSAL METHOD  Trash container  SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST Satisfactory MECHANICAL (General)  PROTECTIVE GLOVES Optional Optional Optional Optional Optional Optional Section IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING STORY PROTECTIVE GLOVES OTHER PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS STORY in dry area.	HAZARDOUS	MAY	OCCUP	₹			CONDITION	VS TO	AVOID
SECTION VII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  Sweep up and/or flush away.  WASTE DISPOSAL METHOD  Trash container  SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST Satisfactory MECHANICAL (General)  PROTECTIVE GLOVES Optional Optional Optional Safety glasses  OTHER PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.			NOT C	CCUR		X			
SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST MECHANICAL (General)  PROTECTIVE GLOVES Optional OTHER  SECTION IX - SPECIAL PROTECTION Optional Optional Optional SECTION IX - SPECIAL PROTECTION SECTION IX - SPECIAL PROTECTION SECTION STORY OPTIONAL OPTIONAL SECTION STORY OPTIONAL OPTIONAL SECTION STORY OPTION	<u></u>						1		
SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST MECHANICAL (General)  PROTECTIVE GLOVES Optional OTHER  SECTION IX - SPECIAL PROTECTION Optional Optional Optional SECTION IX - SPECIAL PROTECTION SECTION IX - SPECIAL PROTECTION SECTION STORY OPTIONAL OPTIONAL SECTION STORY OPTIONAL OPTIONAL SECTION STORY OPTION									<del></del>
SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST Satisfactory MECHANICAL (General)  PROTECTIVE GLOVES Optional Optional Optional safety glasses OTHER PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.									
SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST Satisfactory  MECHANICAL (General)  PROTECTIVE GLOVES Optional Optional Optional Safety glasses  OTHER PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.			SECT	ION VII	- SPI	ILL (	OR LEAK	PROC	EDURES
SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST Satisfactory MECHANICAL (General)  PROTECTIVE GLOVES Optional Optional Optional Safety glasses  Other PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.	STEPS TO BE TAK						PILLED		
SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST Satisfactory MECHANICAL (General)  PROTECTIVE GLOVES Optional Optional Optional Optional safety glasses  Other PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.	STEPS TO BE TAK						PILLED		
SECTION VIII - SPECIAL PROTECTION INFORMATION  RESPIRATORY PROTECTION (Specify type)  VENTILATION  LOCAL EXHAUST Satisfactory MECHANICAL (General)  PROTECTIVE GLOVES Optional Optional Optional Safety glasses  Other PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.	STEPS TO BE TAK						PILLED		
PROTECTIVE GLOVES Optional Other PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  POWDER type  SPECIAL  SPECIAL  OTHER  EYE PROTECTION Optional safety glasses  Optional Section Storing  Store in dry area.		EN IN CASE M	ATERI	AL IS REL	EASED	OR S	PILLED		
PROTECTIVE GLOVES Optional Other PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  POWDER type  SPECIAL  SPECIAL  OTHER  EYE PROTECTION Optional safety glasses  Optional Section Storing  Store in dry area.		EN IN CASE M	ATERI	AL IS REL	EASED	OR S	PILLED		
PROTECTIVE GLOVES Optional OTHER PROTECTIVE EQUIPMENT  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  POWDER type  SPECIAL  SPECIAL  OTHER  EYE PROTECTION Optional safety glasses  Optional SECTION STORING  Store in dry area.		EN IN CASE M	ATERI	AL IS REL	EASED	OR S	PILLED		
Powder type  VENTILATION   LOCAL EXHAUST   Satisfactory   MECHANICAL (General)   OTHER  PROTECTIVE GLOVES   OPTIONAL   OPTIONAL   Safety glasses   Optional   Optional   Safety glasses   Optional   Optional   Safety glasses   Optional   Opti		EN IN CASE M	ATERI	AL IS REL	EASED	OR S	PILLED		
VENTILATION    Cocal Exhaust Satisfactory   Special		EN IN CASE M	Tras	h cont	EASED	OR S	PILLED SV	veep	up and/or flush away.
PROTECTIVE GLOVES Optional Optional Optional Optional Safety glasses Other protective equipment  SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.	WASTE DISPOSAL	METHOD	Tras	h cont	caine	OR S	ROTECTION	veep ON IN	up and/or flush away.
SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  Store in dry area.	WASTE DISPOSAL	METHOD ( SECTION (Sp	Tras	h cont	caine	OR S	ROTECTION	veep ON IN	up and/or flush away.
SECTION IX - SPECIAL PRECAUTIONS  PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  Store in dry area.	WASTE DISPOSAL	SEC OTECTION (Sp	Tras Tion Decify to	h cont	caine	OR S	ROTECTION	veep ON IN	up and/or flush away.  IFORMATION
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.	WASTE DISPOSAL RESPIRATORY PR	SECTOTECTION (SP	TION Pecify ty HAUST SAL (Ge	h cont	caine	OR S	ROTECTION	veep ON IN	up and/or flush away.  IFORMATION  SPECIAL  OTHER
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.	WASTE DISPOSAL RESPIRATORY PR VENTILATION PROTECTIVE GLO	SEC  OTECTION (Sp  LOCAL EXI  MECHANIC  VES  Optio	TION Decify to	h cont	caine	OR S	ROTECTION	veep ON IN	up and/or flush away.  IFORMATION  SPECIAL  OTHER
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area.	WASTE DISPOSAL RESPIRATORY PR VENTILATION PROTECTIVE GLO	SEC  OTECTION (Sp  LOCAL EXI  MECHANIC  VES  Optio	TION Decify to	h cont	caine	OR S	ROTECTION	veep ON IN	up and/or flush away.  IFORMATION  SPECIAL  OTHER
	WASTE DISPOSAL RESPIRATORY PR VENTILATION PROTECTIVE GLO	SEC  OTECTION (Sp  LOCAL EXI  MECHANIC  VES  Optio	TION Pecify to	h cont	caine SPECIA	Powery	ROTECTION TO THE PROTECTION OF	ON IN	UP and/or flush away.  IFORMATION  SPECIAL OTHER  Ptional safety glasses
OTHER PRECAUTIONS	WASTE DISPOSAL RESPIRATORY PR VENTILATION PROTECTIVE GLO OTHER PROTECTI	SECTOTECTION (SPECTION (SP	TION Pecify to	h cont VIII - S setisfs inerall	caine SPECIA	POW	ROTECTION TO THE PROTECTION OF	ON IN	UP and/or flush away.  IFORMATION  SPECIAL  OTHER  Ptional safety glasses
	WASTE DISPOSAL RESPIRATORY PR VENTILATION PROTECTIVE GLO OTHER PROTECTI	SECTOTECTION (SPECTION (SP	TION Pecify to	h cont VIII - S setisfs inerall	caine SPECIA	POW	ROTECTION TO THE PROTECTION OF	ON IN	UP and/or flush away.  IFORMATION  SPECIAL  OTHER  Ptional safety glasses

